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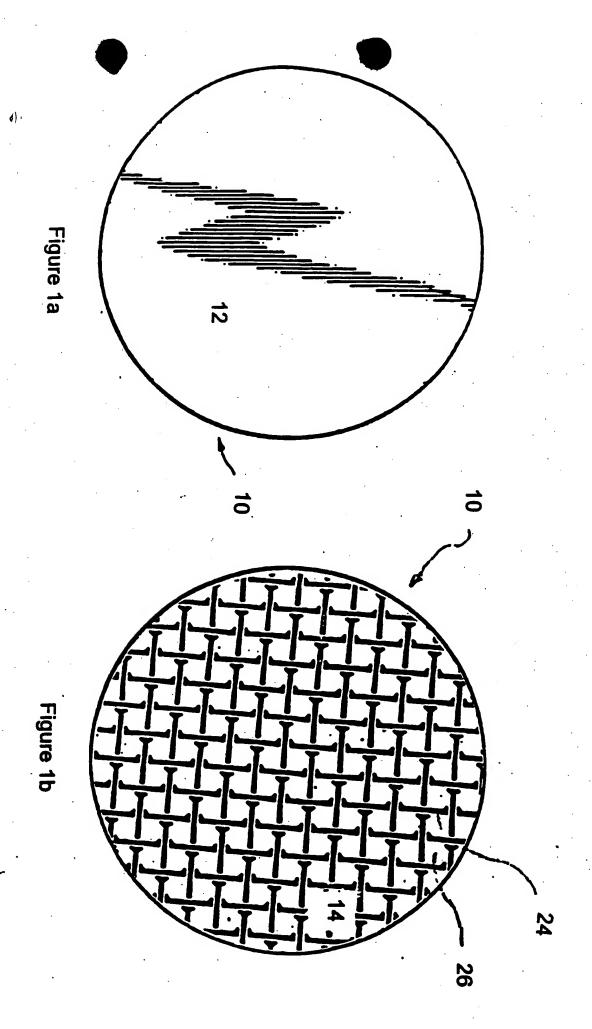


Figure 2

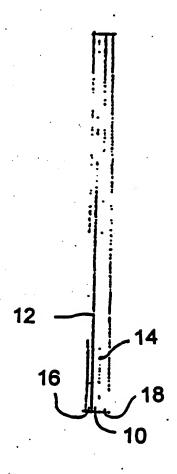
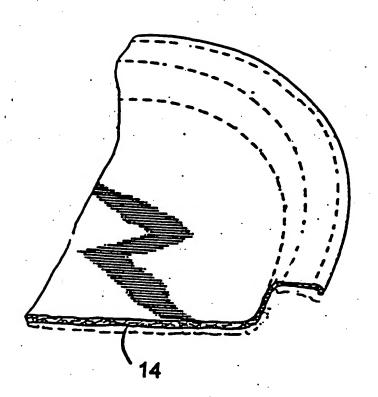


Figure 3



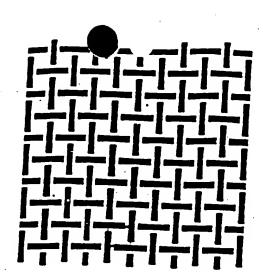


FIGURE 4a

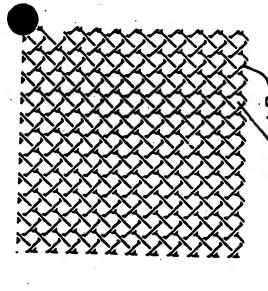
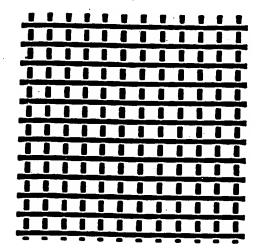


FIGURE 46



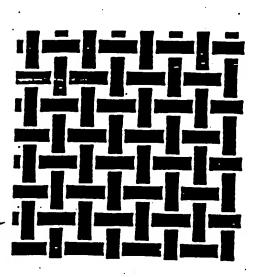
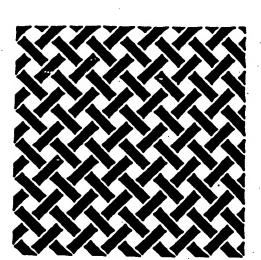
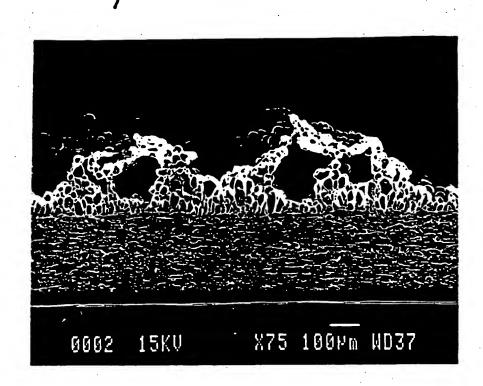
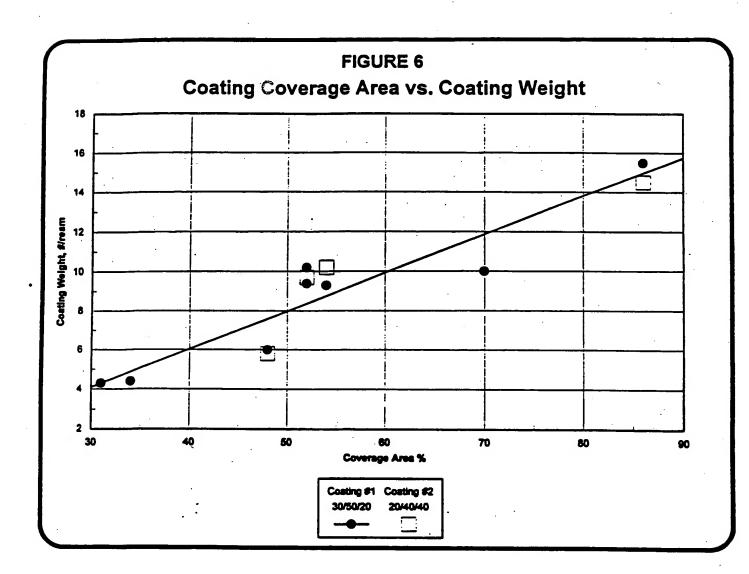
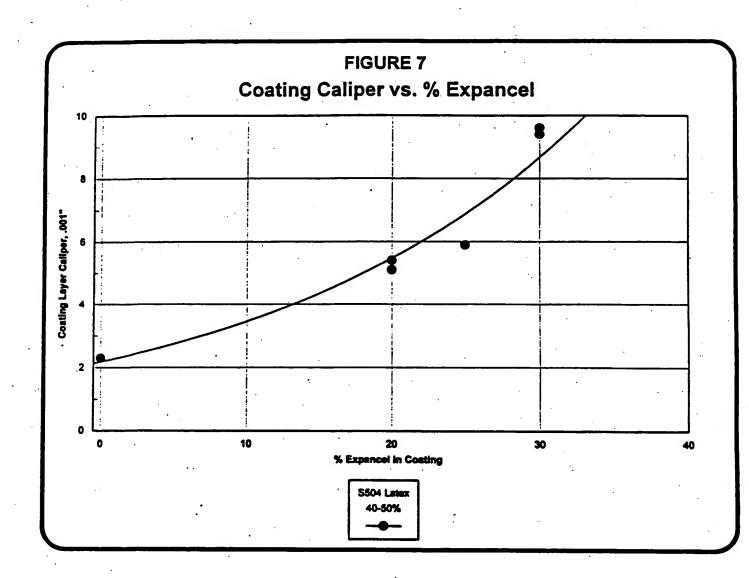


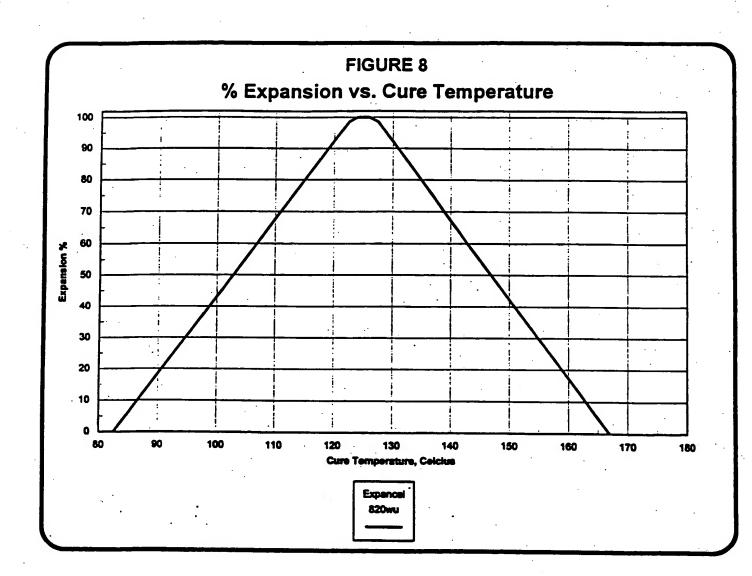
FIGURE 4c

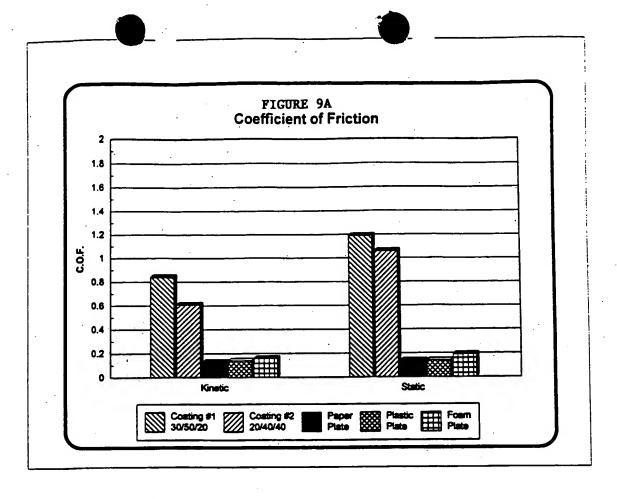


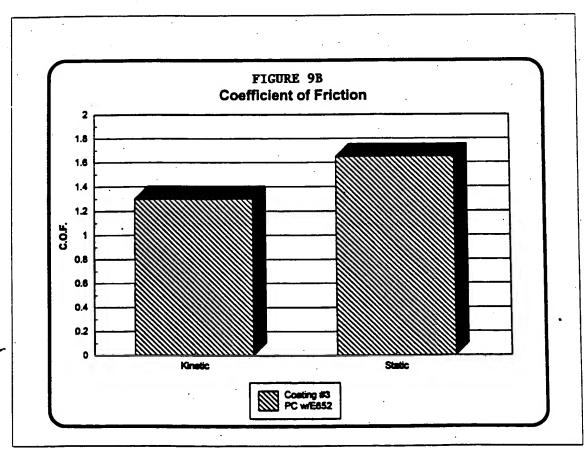


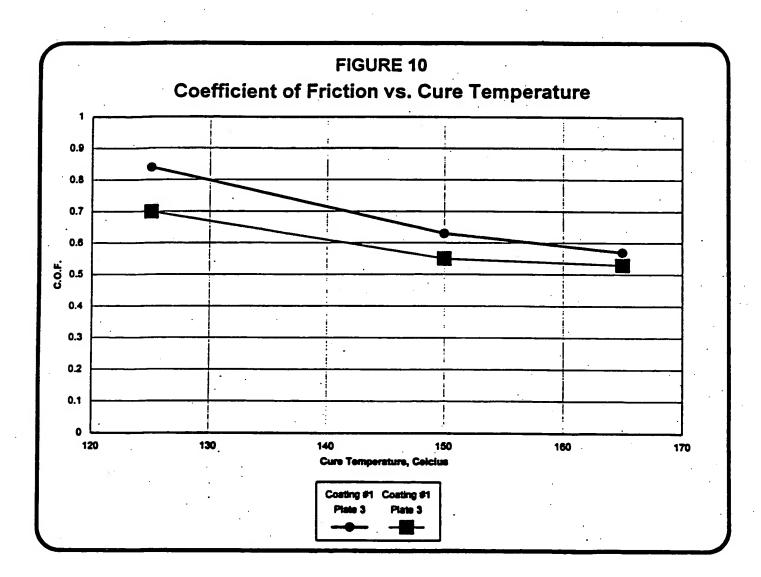


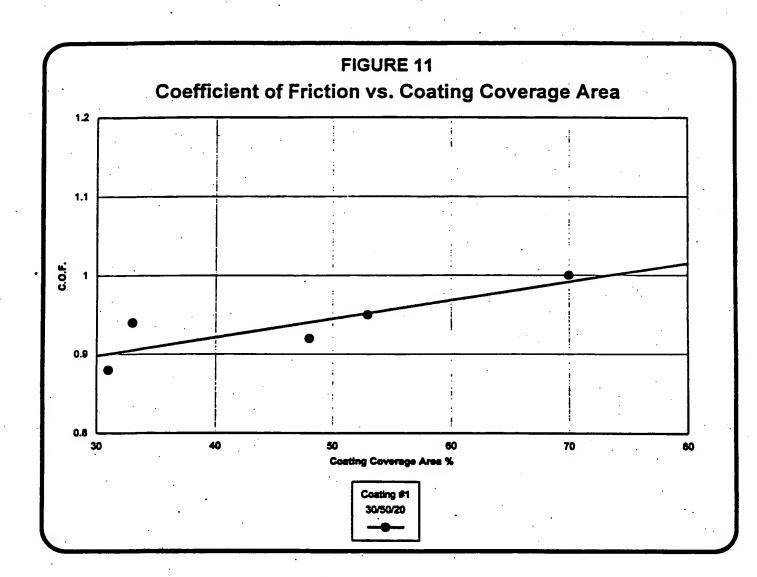


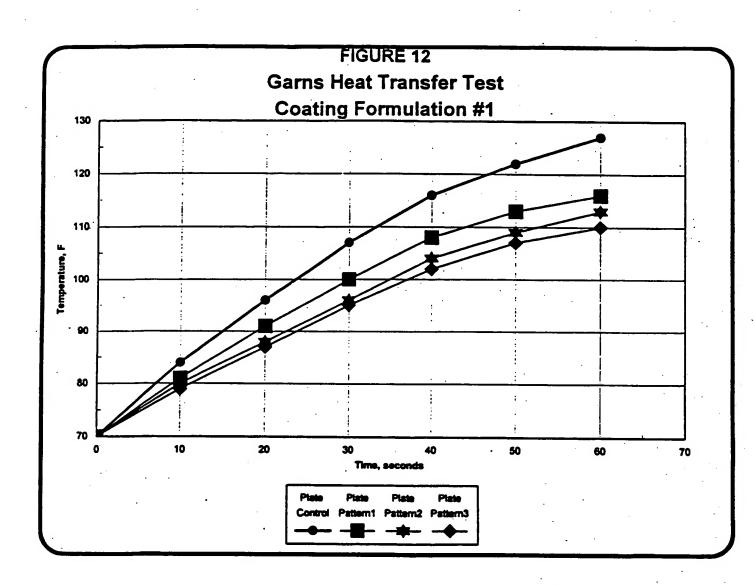


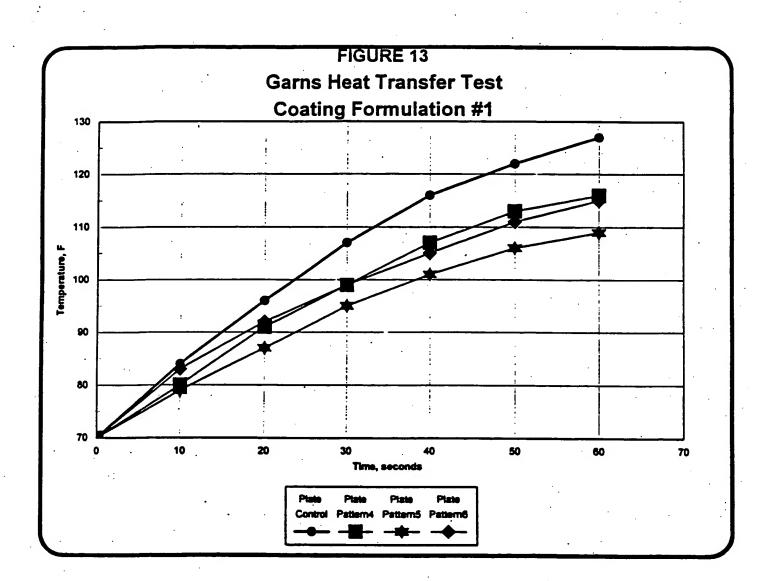












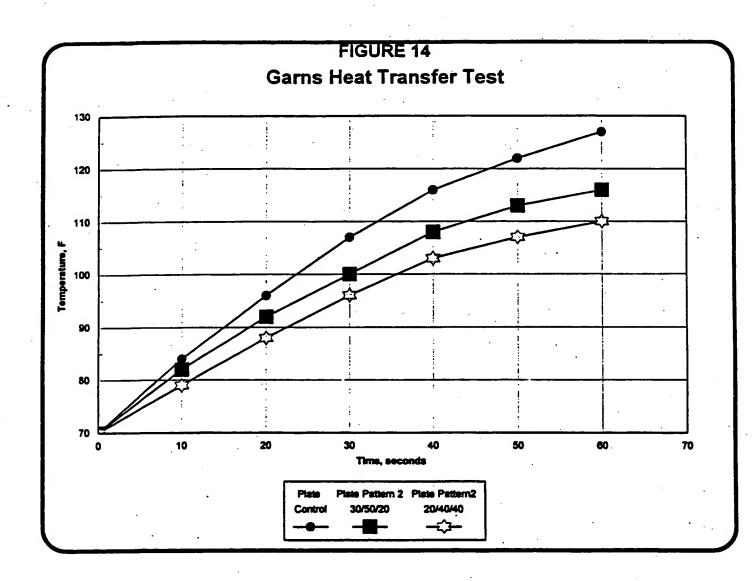
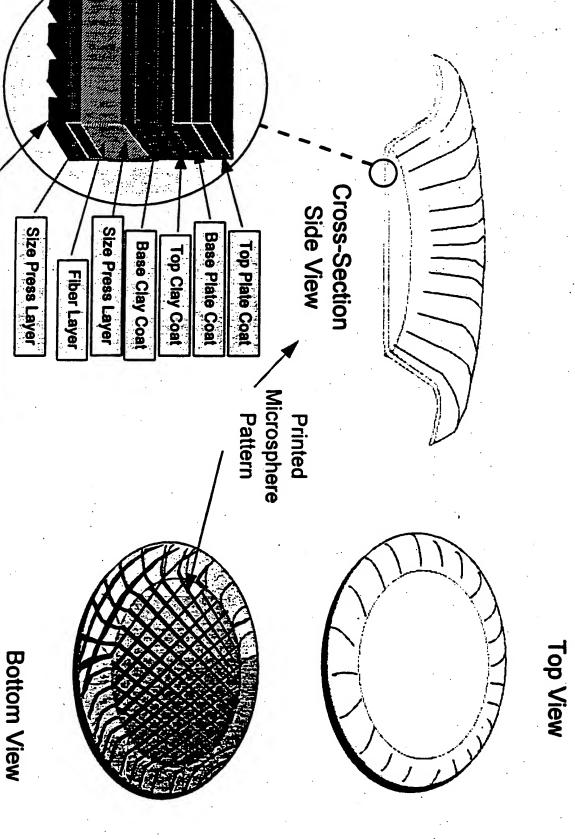
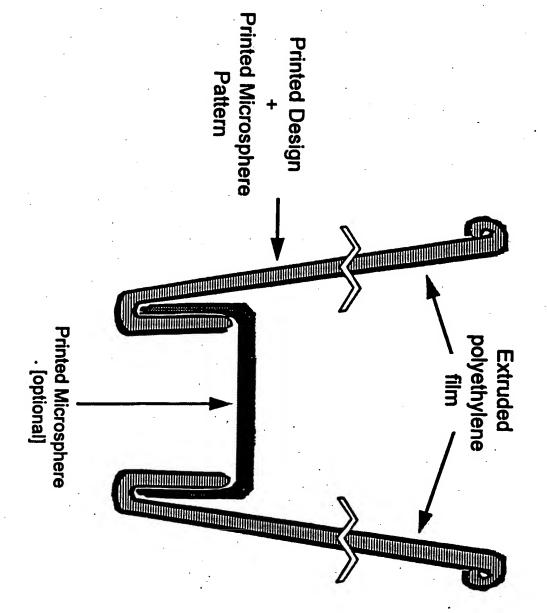


Figure 15

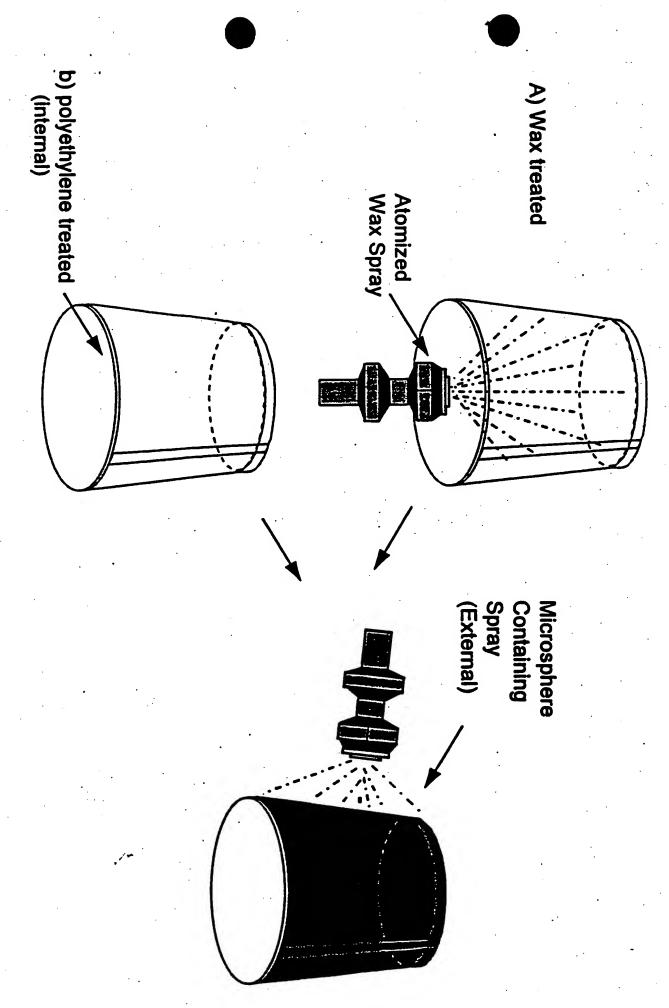


Printed Microsphere Pattern

## Cross-Section Through a Cup

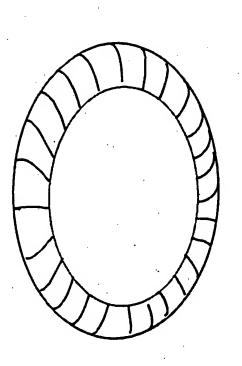


## Wax and Polyethylene treated cups

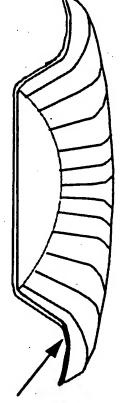


Plate

Side View



Top View

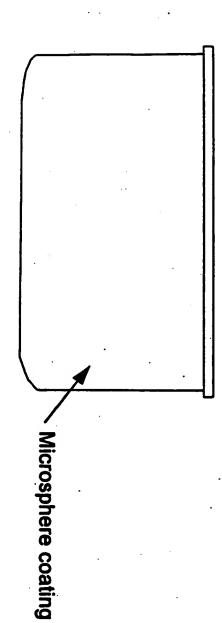


Microsphere coating

Microsphere coating

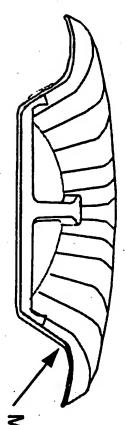
Side View

### Canister



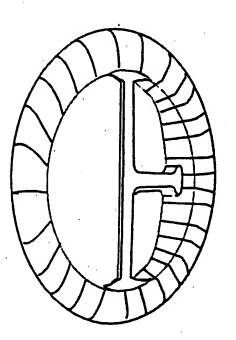
Side View

### **Compartmented Plate**

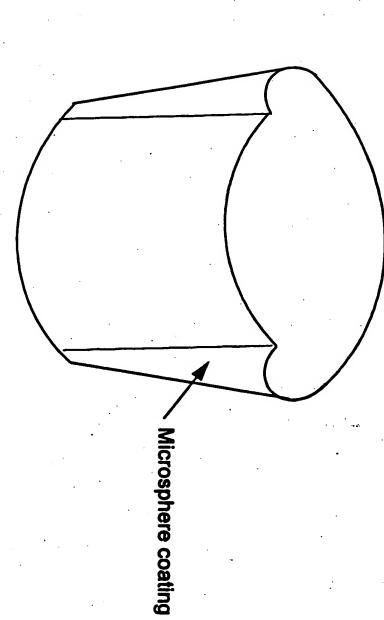


Side View

Microsphere coating

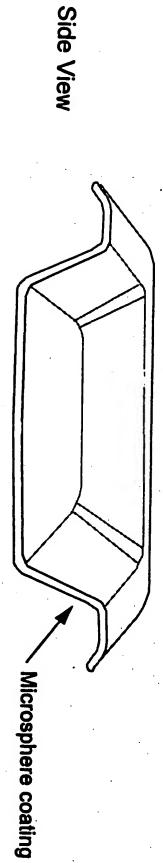


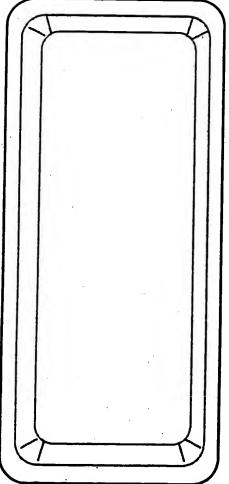
### French Fries Sleeve



Side View

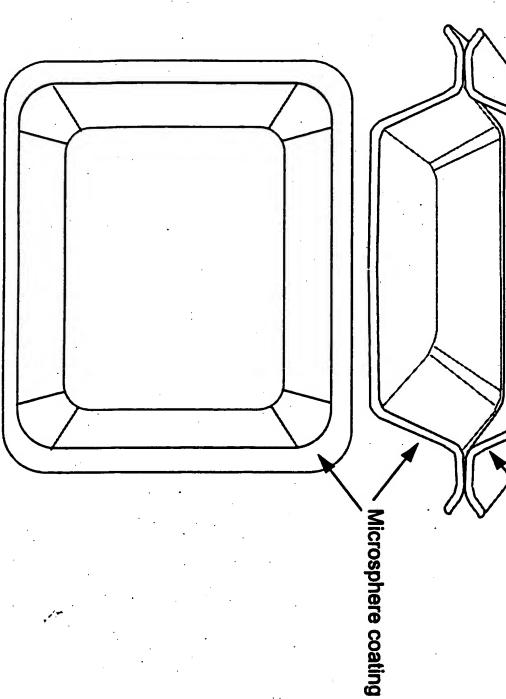
# Rectangular Take-Out Container



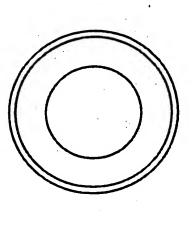


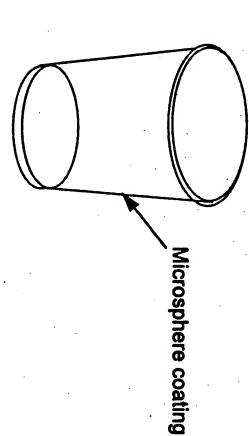
Microsphere coating

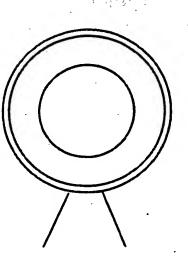
Side View



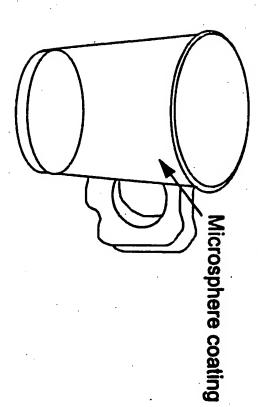
Side View





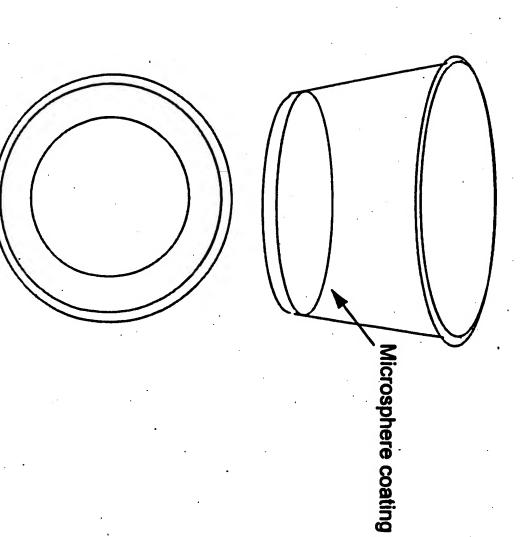


Top View



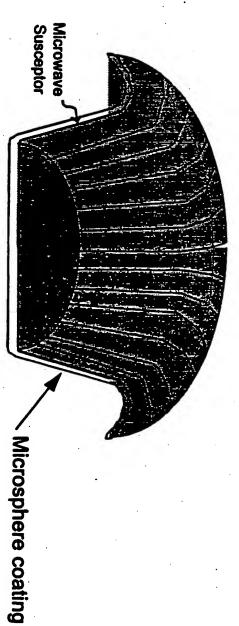
Side View

### Food Bucket



Side View

## Bowl with Microwave Susceptor Layer



Side View

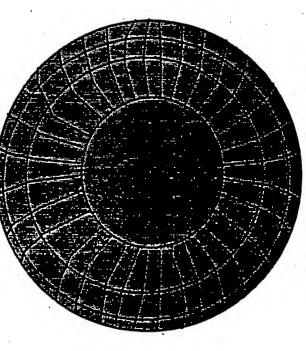


Figure 29

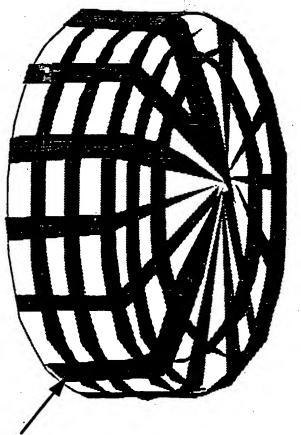
# Food Container with Microwave Susceptor Layer

Microsphere coating. - Microwave -Susceptor

Side View

Hamburger Wrap with printed microsphere pattem

Figure 30



Microsphere coating

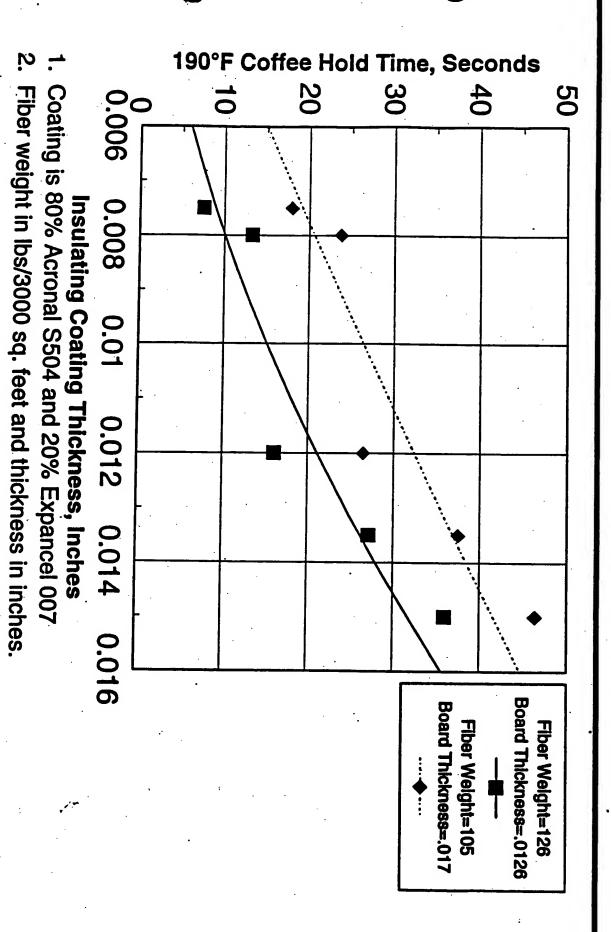
### Application for hot & cold cups

Example 1

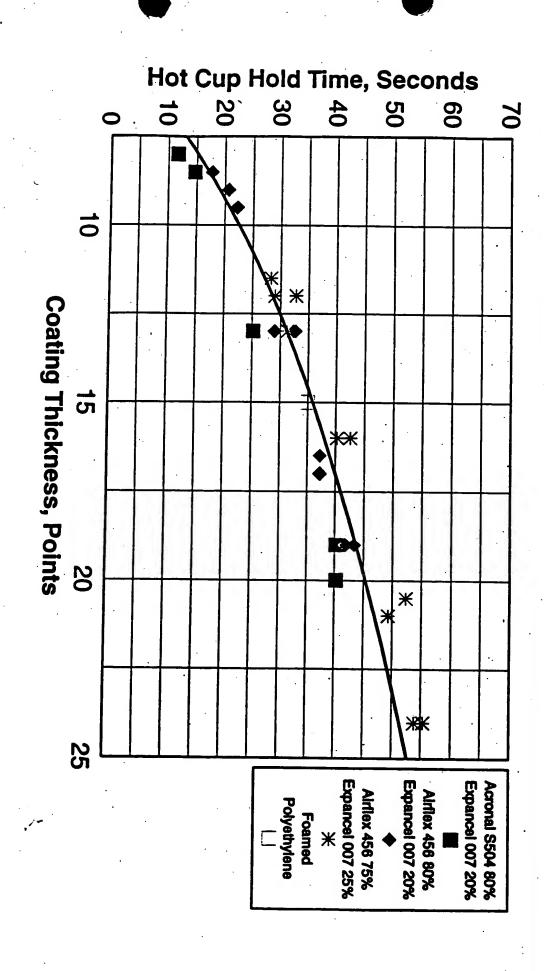
Example 2

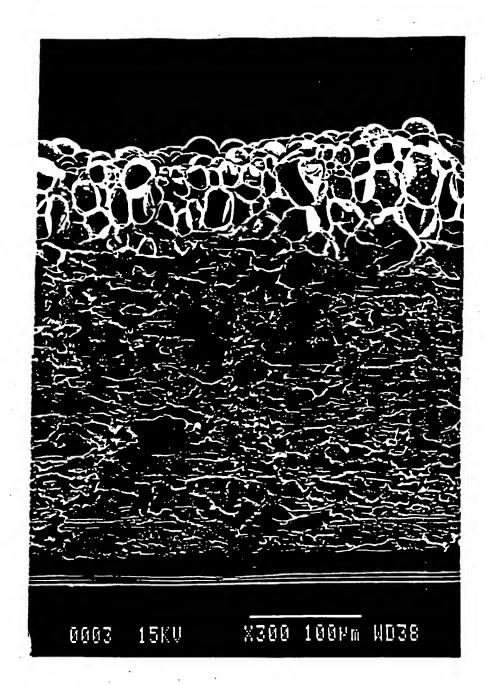
Internal polyethylene layer Printed microsphere pattern microsphere pattern Internal polyethylene layer **Printed** 

Figure 32
Hot Cup Hold Time VS Insulating Coating Thickness for Coffee at 190°F



# Figure 33 Hot Cup Hold Time VS Coating Thickness





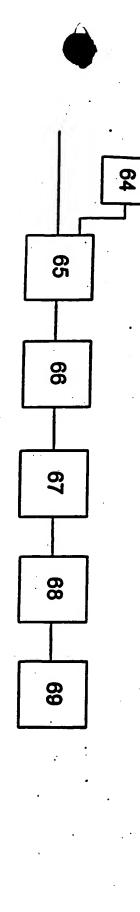
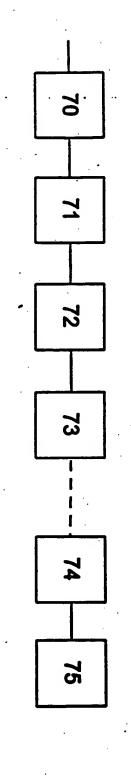
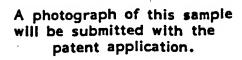


FIGURE 35





































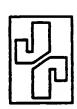






















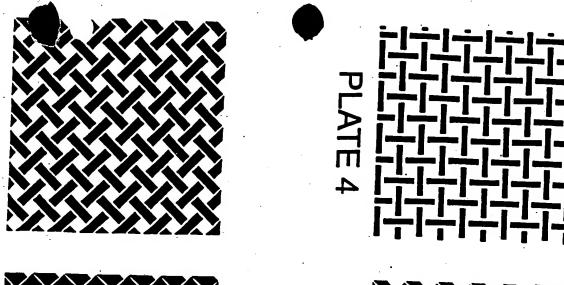


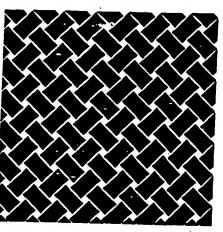








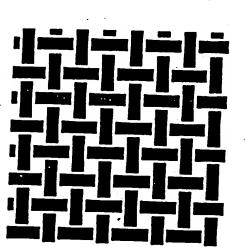


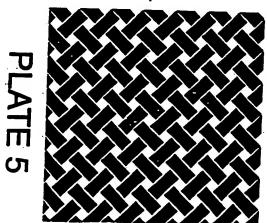


CUP 3

CUP 2

PLATE 6





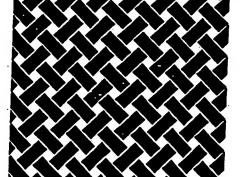


PLATE 1

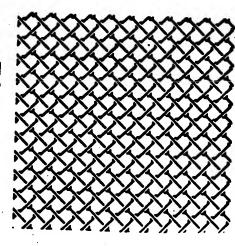
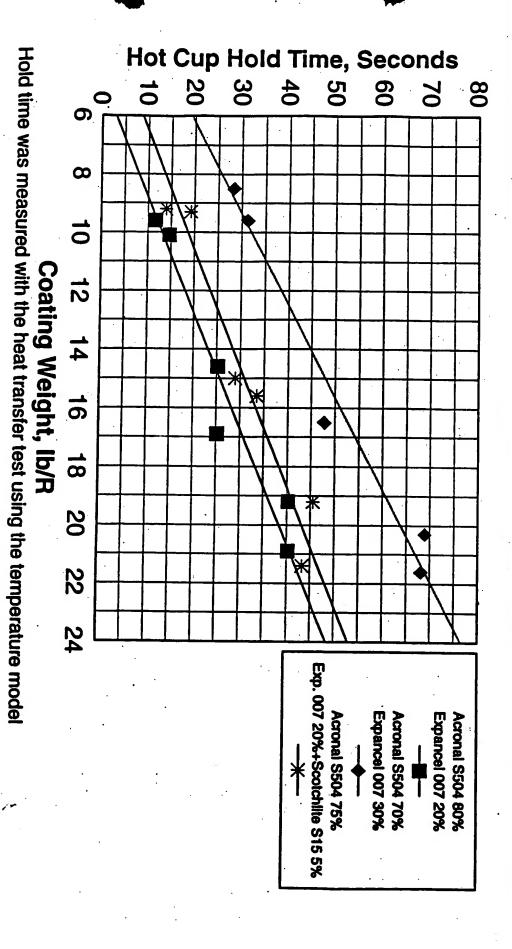


PLATE 3

# Figure 39 Hot Cup Hold Time VS Coating Weight



Sidewall Temperature After 35 Seconds Figure 40 Hot Cup Hold Time VS

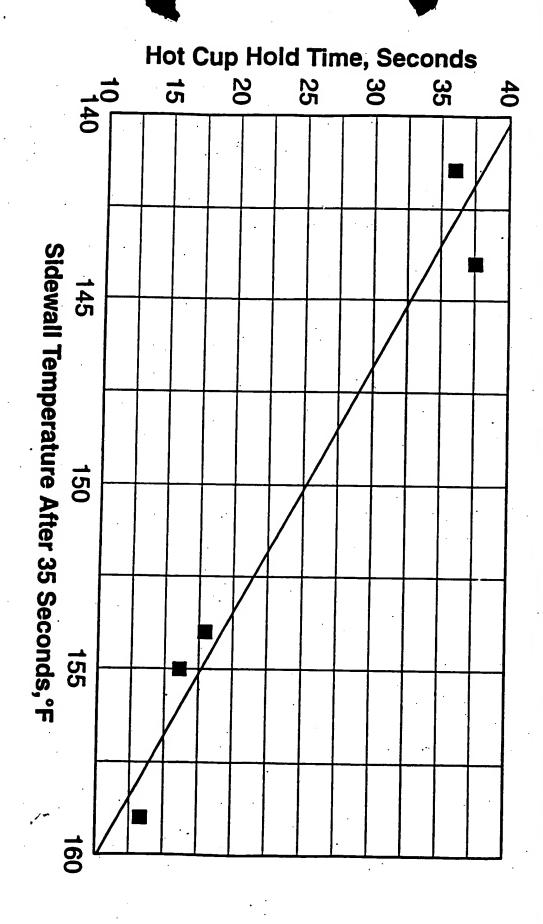


Figure 41 Hot Cup Hold Time VS Coating Weight

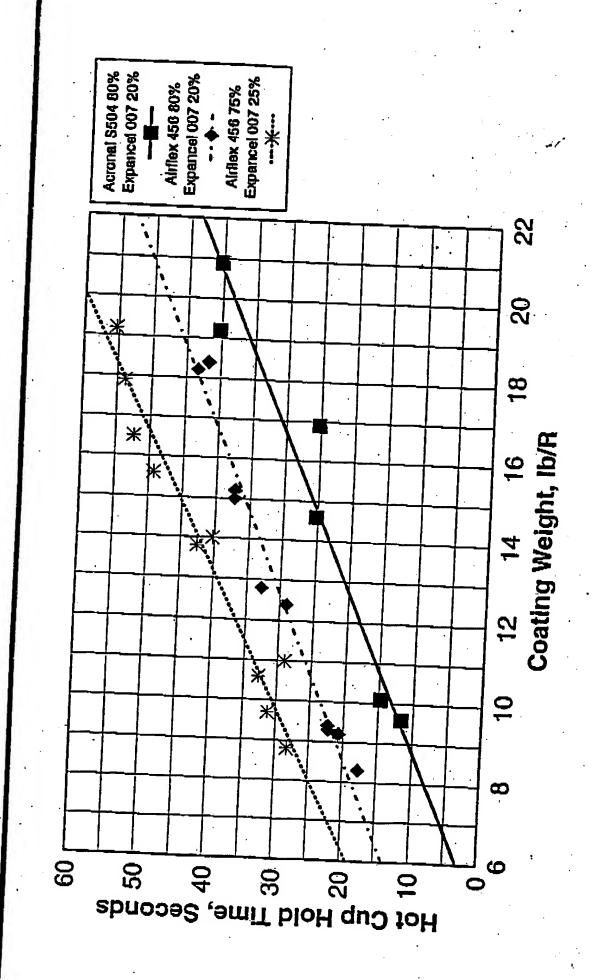


Figure 42

# Hot Cup Hold Time VS Coating Weight

